



# BOUNTIFUL

*City of Beautiful Homes and Gardens*

JOE L. JOHNSON  
MAYOR

CITY COUNCIL  
BARBARA HOLT  
R. FRED MOSS  
JOHN S. PITT  
J. GORDON THOMAS  
TOM TOLMAN

CITY MANAGER  
TOM HARDY

February 27, 2006

Dennis R. Downs, Director  
Division of Solid and Hazardous Waste  
P. O. Box 144880  
Salt Lake City, Utah 84114-4880

**HAND DELIVERED**  
*06.00816*  
**FEB 28 2006**

UTAH DIVISION OF  
SOLID & HAZARDOUS WASTE

Subject: 2006 Solid Waste Landfill Annual Report (2005 Data)  
2006 Solid Waste Compost Facility Annual Report (2005 Data)

Dear Mr. Downs

Enclosed are completed "Solid Waste Landfill Facility Annual Report" and "Solid Waste Compost Annual Report" forms for 2005 from the Bountiful Sanitary Landfill. The items listed under the "Other Required Reports" section of the landfill annual report are also contained.

The enclosures include the results of our 2005 landfill gas monitoring activities, training and certifications for facility personnel, and our most recent groundwater monitoring results along with statistical analysis of the groundwater data.

You may notice that the quantities for Municipal Tons and Recycled Tons are substantially different than they were on the last Landfill annual report. Most of the difference is due to a change in reporting. On this Annual Report, the amount of Municipal Tons more accurately represents municipal waste according to the Division of Solid and Hazardous Waste's definition for municipal waste. Also, the amount reported as Tons Recycled does not include green waste, because it is composted and reported on the Compost Facility Annual Report.

In the SOLID WASTE LANDFILL ANNUAL REPORT under the heading "Conversion Factor Used", we used a site-specific conversion factor for **residential** municipal waste being accepted. A typical pick-up truck load is 0.4 tons. This is based on site specific averages calculated by weighing representative loads and determining that this conversion appropriately estimates the weight of the loads. The same procedure was used for a one ton truck (or double axle trailer) load, and for a dump truck sized load. We use 0.6 tons and 0.9 tons respectively for these loads. All other material is weighed as it enters the landfill.

If you have any questions, or require additional information, please feel free to contact the Engineering Department.

Sincerely,  
BOUNTIFUL CITY ENGINEERING DEPT.

Todd Christensen, P.E.  
Staff Engineer

Enclosures as stated

**Todd G. Christensen P. E.**

Bountiful City Engineering Department

790 South 100 East • P.O. Box 369 • Bountiful, Utah 84011-0369 • (801) 298-6125 • FAX (801) 298-6033 • [toddcc@bountifulutah.gov](mailto:toddcc@bountifulutah.gov)

Mail to:  
Dennis R. Downs, Director  
Division of Solid and Hazardous Waste  
P.O. Box 144880  
Salt Lake City, Utah 84114-4880

## 2006 SOLID WASTE LANDFILL ANNUAL REPORT

For Calendar year 2005 or most recent fiscal year

### Administrative Information

Facility Name: Bountiful Sanitary Landfill

Facility Mailing Address: P.O. Box 369

(Number & Street, Box and/or Route)

City: Bountiful, State: UT Zip Code: 84011-0369

County: Davis

Contact's Name: Todd G. Christensen Phone No.: (801) 298-6125

Title: Engineer

Contact's Mailing Address: P.O. Box 369 Bountiful, UT 84011-0369

Contact's Email Address: toddc@bountifulutah.gov

### Owner

Name: Bountiful City Corporation Phone No.: (801) 298-6125

Mailing Address: P.O. Box 369

(Number & Street, Box and/or Route)

City: Bountiful, State: UT Zip Code: 84011-0369

### Operator *(Complete this section only if the operator is not an employee of the Owner shown above)*

Name: \_\_\_\_\_ Phone No.: (\_\_\_\_\_) \_\_\_\_\_

Mailing Address: \_\_\_\_\_

(Number & Street, Box and/or Route)

City: \_\_\_\_\_, State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

### Facility Type and Status

☒ Class I

☐ Class IIIb

☐ Class V

☐ Class II

☐ Class IVa

☐ Class VI

☐ Class IIIa

☐ Class IVb

Does the facility have a construction and demolition (C/D) cell as part of the permit (not operated under a separate permit number)? Yes \_\_\_\_\_ No X

If facility was permanently closed during the year enter date closed: \_\_\_\_\_

### Annual Disposal

Total facility tons: 53,245.77 or cubic yards: \_\_\_\_\_

*If separate tonnages are available*

Municipal tons: 38,552.30 or cubic yards: \_\_\_\_\_

C/D tons: 14,693.47 or cubic yards: \_\_\_\_\_

Industrial tons: 0 or cubic yards: \_\_\_\_\_

### Conversion Factor used

- ☐ No conversion factors used  
☐ Conversion factor from rules (R315-302-2(4)(c)) used  
☒ Site specific conversion used Please list: 0.4 Tons for pick-up truck load, 0.6 Tons for a one ton truck or a dual axle trailer, 0.9 Tons for a full size dump truck load

Tons Recycled: 564.52

Cubic Yards Recycled: \_\_\_\_\_

### Financial Assurance

Current Closure Cost Estimate: \$927,565

Current Post-Closure Cost Estimate: \$794,113

Current Financial Assurance Mechanism: Trust Fund

(ie. Bond, Trust Fund, Corporate or government Test etc.)

Financial Assurance Mechanism Holder: PTIF Account No: 0973

(ie. Name of Bond Company, Bank etc.. If PTIF Account give account number)

Current Amount or Balance in Mechanism: \$1,752,060

### Other Required Reports

Financial Assurance: Each facility must recalculate the cost of closure and post-closure care to account for inflation and design changes each year. The recalculation, along with proof that the new cost estimates are fully covered by the assurance mechanism currently be utilized, must be submitted. Facilities that are using a trust account should include a copy of the most recent account statement.

*Note* Facilities using "Local Government Financial Test" must provide the information required in R315-309-3(7)(d) each year.

Ground Water Monitoring: Each facility that is required to monitor ground water must submit a ground water monitoring report that contains water elevations, sampling results, and statistical analyses. Check box if facility is exempt from ground water monitoring ☐

Explosive Gas Monitoring: A gas monitoring report must be included unless the facility is a Class II landfill that has receive an exemption, a Class III, IV, or VI landfill, or any other facility that has an exemption.

Check box if facility is exempt from gas monitoring ☐

Training Report: A report of all training programs or procedures completed by facility personnel during the year.

Signature: \_\_\_\_\_

Date: 2/27/06

Signature should be by an executive officer, general partner, proprietor, elected official, or a duly authorized representative. A duly authorized representative must meet the requirements of the solid waste rules (UAC R315-310-2(4)(d)).

Print name: Thomas R. Hardy

Title: City Manager

# Bountiful Sanitary Landfill Closure/Post Closure Cost Estimates

## Landfill Information

Description	Quantity	Units
Total Permitted Area	100	acres
Active Portion (Soil Lined)	50	acres
Area of Largest Cell Requiring Final Cap	50	acres
Perimeter Fencing	7600	linear feet
Groundwater Monitoring Wells	327	VLF
Average Daily Flow	120	tons/day
Landfill Disposal Cost	21	\$/ton
Price Adjustment	1.04	

(Original Unit Costs are for end of 2004)

## Closure Cost Estimate

Task/Service	Quantity	Units	Multiplier	Unit Cost	Subtotal
<b>Preliminary Site Work</b>					
Conduct Site Evaluation	1	Lump Sum	1	\$2,892.19	\$3,007.88
Dispose Final Waste	120	tons/day	5	\$21.00	\$13,104.00
Remove Temporary Buildings	1	Lump Sum	1	\$2,577.12	\$2,680.20
Remove Equipment	1	Lump Sum	1	\$2,103.50	\$2,187.64
Repair/Replace Perimeter Fencing	7600	linear feet	0.25	\$2.32	\$4,584.32
<b>Monitoring Equipment</b>					
Rework/Replace Monitoring Wells	327	VLF	0.25	\$43.54	\$3,701.77
Plug Abandoned Monitoring Wells	327	VLF	0.25	\$18.67	\$1,587.32
<b>Construction</b>					
Complete Site Grading	50	acres	1	\$1,179.93	\$61,356.36
Construct/Compact Clay Final Cap	121000	cubic yards	1	\$3.36	\$422,822.40
Place On-Site Topsoil	100883	cubic yards	1	\$1.58	\$165,770.95
Establish Vegetative Cover	50	acres	1	\$421.11	\$21,897.72
<b>SUBTOTAL</b>					
<b>Administrative Services</b>	1	Lump Sum	0.1	\$675,673.62	\$70,270.06
<b>Technical and Professional Services</b>	1	Lump Sum	0.12	\$675,673.62	\$84,324.07
<b>Closure Contingency</b>	1	Lump Sum	0.1	\$675,673.62	\$70,270.06
<b>TOTAL FINAL CLOSURE</b>					<b>\$927,564.74</b>

## Post-Closure Cost Estimate

Task/Service	Quantity	Units	Multiplier	Unit Cost	Subtotal
<b>Site Maintenance</b>					
Site Inspections	4	per year	30	\$526.13	\$65,661.02
General Maintenance	1	per year	30	\$1,577.37	\$49,213.94
<b>Monitoring Equipment</b>					
Rework/Replace Monitoring Wells	327	VLF	0.25	\$43.54	\$3,701.77
Plug Abandoned Monitoring Wells	327	VLF	0.25	\$18.67	\$1,587.32
Final Plugging of Monitoring Wells	327	VLF	1	\$18.67	\$6,349.29
Final Plugging of Piezometers	300	VLF	1	\$14.73	\$4,595.76
<b>Sampling and Analysis</b>					
Groundwater Monitoring	30	Years	1	\$16,000.00	\$499,200.00
<b>Final Cover Maintenance</b>					
Repair Erosion, Settlement & Subsidence	100	acres	30	\$2.10	\$6,552.00
Reseed Vegetative Cover	100	acres	0.2	\$421.11	\$8,759.09
<b>SUBTOTAL</b>					<b>\$645,620.20</b>
<b>Administrative Services</b>	1	Lump Sum	0.06	\$620,788.66	\$38,737.21
<b>Technical and Professional Services</b>	1	Lump Sum	0.07	\$620,788.66	\$45,193.41
<b>Post-Closure Contingency</b>	1	Lump Sum	0.1	\$620,788.66	\$64,562.02
<b>TOTAL POST-CLOSURE</b>					<b>\$794,112.85</b>

Total Closure plus Post Closure Estimate

**\$1,721,677.59**

## STATEMENT OF ACCOUNT

**P T I F****UTAH PUBLIC TREASURERS' INVESTMENT FUND**

Edward T. Alter, Utah State Treasurer, Fund Manager

E315 State Capitol Complex

Salt Lake City, Utah 84114-2315

Local Call (801) 538-1042 Toll Free (800) 395-7665

www.treasurer.utah.gov

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ESCROW-BOUNTIFUL LANDFILL  
 ATTN: MARK MCRAE  
 PO BOX 369  
 BOUNTIFUL UT 84011-0369

01/31/06

STATEMENT OF ACCOUNT NO: 0973

REPORT PERIOD: 01/01/06 TO 01/31/06

DATE	REFERENCE	DEPOSITS	WITHDRAWALS	BALANCE
01/01/06	BEGBAL	0.00	0.00	1,745,653.94
01/31/06	NETEARN	6,406.02	0.00	1,752,059.96
01/31/06	ENDBAL	0.00	0.00	1,752,059.96

## ACCOUNT SUMMARY

BEGINNING BALANCE:	1,745,653.94
DEPOSITS IN THE PERIOD:	6,406.02
WITHDRAWALS IN THE PERIOD:	0.00
ENDING BALANCE:	1,752,059.96
GROSS EARNINGS:	6,406.02
ADMINISTRATIVE FEE (0.0000%)	0.00
NET EARNINGS:	6,406.02
AVERAGE DAILY BALANCE:	1,745,653.94
GROSS EARNINGS RATE:	4.2616%
NET EARNINGS RATE:	4.2616%

12-31-05 GASB 31 FAIR VALUE  
 PER SHARE FACTOR IS .999564

PLEASE RETAIN THIS STATEMENT FOR FUTURE REFERENCE

# BOUNTIFUL SANITARY LANDFILL

## METHANE GAS MONITORING

DATE: 1-7-05

Location	METHANE CONCENTRATION (%)	PERCENT LOWER EXPLOSIVE LIMIT (%LEL)
Office <u>L. ROOM</u>	0	0
Office _____	0	0
Shop <u>N. BAY</u>	0	0
Shop <u>S. BAY</u>	0	0
Scale House	0	0
North Boundary	0	0
South Boundary	0	0
East Boundary	0	0
West Boundary	0	0
Well DC-1	0	0
Well DC-2	0	0
Well DC-3	42.5	4.4
Well DC-4	35.4	1.6
Well JMM-1	0	0
Well JMM-2	0	0
Well JMM-3	0	0
Well JMM-4	0	0
Well JMM-5	N.M.	N.M.
Well JMM-6	0	0
Well JMM-7	0	0
Well JMM-8	0	0
Well BSL-1	N.M.	N.M.
Well BSL-2	N.M.	N.M.
Well BSL-3	N.M.	N.M.

# BOUNTIFUL SANITARY LANDFILL

## METHANE GAS MONITORING

DATE: 3-10-05

Location	METHANE CONCENTRATION (%)	PERCENT LOWER EXPLOSIVE LIMIT (%LEL)
Office <u>L. Rodin</u>	0	0
Office _____	0	0
Shop <u>S. BAY</u>	0	0
Shop <u>N. BAY</u>	0	0
Scale House	0	0
North Boundary	0	0
South Boundary	0	0
East Boundary	0	0
West Boundary	0	0
Well DC-1	0	0
Well DC-2	0	0
Well DC-3	44.5	20.0
Well DC-4	21.7	0.9
Well JMM-1	0	0
Well JMM-2	0	0
Well JMM-3	0	0
Well JMM-4	0	0
Well JMM-5	0	0
Well JMM-6	0	0
Well JMM-7	0	0
Well JMM-8	0	0
Well BSL-1	0	0
Well BSL-2	0	0
Well BSL-3	0	0

CALM - CLEAR

# BOUNTIFUL SANITARY LANDFILL

## METHANE GAS MONITORING

DATE: 4-14-05

Location	METHANE CONCENTRATION (%)	PERCENT LOWER EXPLOSIVE LIMIT (%LEL)
Office _____	0	0
Office <u>✓ Rough</u>	0	0
Shop <u>S BAY</u>	0	0
Shop <u>N. BAY</u>	0	0
Scale House	0	0
North Boundary	0	0
South Boundary	0	0
East Boundary	0	0
West Boundary	0	0
Well DC-1	0	0
Well DC-2	0	0
Well DC-3	41.2	17.0
Well DC-4	8.8	0.4
Well JMM-1	<del>11.2</del> 0	<del>17.0</del> 0
Well JMM-2	0	0
Well JMM-3	0	0
Well JMM-4	0	0
Well JMM-5	0	0
Well JMM-6	0	0
Well JMM-7	0	0
Well JMM-8	0	0
Well BSL-1	0	0
Well BSL-2	0	0
Well BSL-3	0	0



WIND CALM

# BOUNTIFUL SANITARY LANDFILL

## METHANE GAS MONITORING

DATE: 6-30-05

Location	METHANE CONCENTRATION (%)	PERCENT LOWER EXPLOSIVE LIMIT (%LEL)
Office <u>L. ROOM</u>	0	0
Office _____	0	0
Shop <u>N. BAY</u>	0	0
Shop <u>S BAY</u>	0	0
Scale House	0	0
North Boundary	0	0
South Boundary	0	0
East Boundary	0	0
West Boundary	0	0
Well DC-1	0	0
Well DC-2	0	0
Well DC-3	42.0	14.0
Well DC-4	16.5	0.7
Well JMM-1	0	0
Well JMM-2	0	0
Well JMM-3	0	0
Well JMM-4	0	0
Well JMM-5	0	0
Well JMM-6	0	0
Well JMM-7	0	0
Well JMM-8	0	0
Well BSL-1	0	0
Well BSL-2	0	0
Well BSL-3	0	0

# BOUNTIFUL SANITARY LANDFILL

## METHANE GAS MONITORING

WIND - CALM

DATE: 8-4-05

CD2

Location	METHANE CONCENTRATION (%)	PERCENT LOWER EXPLOSIVE LIMIT (%LEL)
Office _____	0	0
Office <u>L. ROOM</u>	0	0
Shop <u>S. BAY</u>	0	0
Shop <u>N. BAY</u>	0	0
Scale House	0	0
North Boundary	0	0
South Boundary	0	0
East Boundary	0	0
West Boundary	0	0
Well DC-1	N.M.	N.M.
Well DC-2	0	0
Well DC-3	32.5	14.0
Well DC-4	14.0	0.5
Well JMM-1	0	0
Well JMM-2	0	0
Well JMM-3	0	0
Well JMM-4	0	0
Well JMM-5	0	0
Well JMM-6	0	0
Well JMM-7	0	0
Well JMM-8	0	0
Well BSL-1	0	0
Well BSL-2	0	0
Well BSL-3	0	0

# BOUNTIFUL SANITARY LANDFILL

## METHANE GAS MONITORING

DATE: 9-29-05

Location	METHANE CONCENTRATION (%)	PERCENT LOWER EXPLOSIVE LIMIT (%LEL)
Office <u>SEAY</u>	0	0
Office <u>N. BAY</u>	0	0
Shop <u>ROOM</u>	0	0
Shop _____	0	0
Scale House	0	0
North Boundary	0	0
South Boundary	0	0
East Boundary	0	0
West Boundary	0	0
Well DC-1	0	0
Well DC-2	0	0
Well DC-3	55.0	15.0
Well DC-4	9.8	0.4
Well JMM-1	0	0
Well JMM-2	0	0
Well JMM-3	0	0
Well JMM-4	0	0
Well JMM-5	0	0
Well JMM-6	0	0
Well JMM-7	0	0
Well JMM-8	0	0
Well BSL-1	0	0
Well BSL-2	N.M.	N.M.
Well BSL-3	N.M.	N.M.

# BOUNTIFUL SANITARY LANDFILL

## METHANE GAS MONITORING

DATE: 11-3-05

Location	METHANE CONCENTRATION (%)	PERCENT LOWER EXPLOSIVE LIMIT (%LEL)
Office_____	0	0
Office_____	0	0
Shop <u>S.BAY</u>	0	0
Shop <u>N. BAY</u>	0	0
Scale House	0	0
North Boundary	0	0
South Boundary	0	0
East Boundary	0	0
West Boundary	0	0
Well DC-1	0	0
Well DC-2	0	0
Well DC-3	50.0	12.0
Well DC-4	10.0	0.2
Well JMM-1	0	0
Well JMM-2	0	0
Well JMM-3	0	0
Well JMM-4	0	0
Well JMM-5	0	0
Well JMM-6	0	0
Well JMM-7	0	0
Well JMM-8	0	0
Well BSL-1	0	0
Well BSL-2	NM	
Well BSL-3	NM	

# BOUNTIFUL SANITARY LANDFILL

## METHANE GAS MONITORING

WIND  
CALM

DATE: 12-1-08

Location	METHANE CONCENTRATION (%)	PERCENT LOWER EXPLOSIVE LIMIT (%LEL)
Office _____	0	0
Office <u>L. ROOM</u>	0	0
Shop <u>N. BAY</u>	0	0
Shop <u>S. BAY</u>	0	0
Scale House	0	0
North Boundary	0	0
South Boundary	0	0
East Boundary	0	0
West Boundary	0	0
Well DC-1	0	0
Well DC-2	0	0
Well DC-3	55.0	8.8
Well DC-4	9.9	0.2
Well JMM-1	0	0
Well JMM-2	0	0
Well JMM-3	0	0
Well JMM-4	0	0
Well JMM-5	0	0
Well JMM-6	0	0
Well JMM-7	0	0
Well JMM-8	0	0
Well BSL-1	0	0
Well BSL-2	N.M.	N.M.
Well BSL-3	N.M.	N.M.

Mark, a first aid and safety meeting was conducted at the Landfill for Jim, Trevis and John on March 17, 2005. This class was presented by Metro fire and Paramedics. This is for your records if you need this.

Thanks,  
Terry T



**SWANA®**  
SOLID WASTE ASSOCIATION  
of North America

**SWANA CERTIFIED PROFESSIONAL**

This is to certify that

***Terry Thompson***

has met the Solid Waste Association of North America's eligibility requirements  
and passed a comprehensive examination. Therefore SWANA hereby  
designates Terry Thompson as a:

**Certified Landfill Manager**

As of 07/19/2004 until 07/19/2007

Certification No. 50749

John A. Skinner  
Executive Director and CEO



**SWANA®**

SOLID WASTE ASSOCIATION  
of North America

SWANA CERTIFIED PROFESSIONAL

This is to certify that

***Jim Wood***

has met the Solid Waste Association of North America's eligibility requirements  
and passed a comprehensive examination. Therefore SWANA hereby  
designates Jim Wood as a:

**Certified Landfill Technical Associate**

As of 09/22/2004 until 09/22/2007

SOLID WASTE ASSOCIATION

Certification No. 60517

John A. Skinner  
Executive Director and CEO



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